

Hominids and Early Humans

Later groups of hominids appeared about 3 million years ago. As time passed they became more like modern humans.

In the early 1960s Louis Leakey found hominid remains that he called *Homo habilis*, or “handy man.” Leakey and his son Richard believed that *Homo habilis* was more closely related to modern humans than Lucy and had a larger brain.

Scientists believe that another group of hominids appeared in Africa about 1.5 million years ago. This group is called *Homo erectus*, or “upright man.” Scientists think these people walked completely upright like modern people do.

Scientists believe that *Homo erectus* knew how to control fire. Once fire was started by natural causes, such as lightning, people used it to cook food. Fire also gave them heat and protection against animals.

FOCUS ON READING

Dates in a text can help you keep events in order in your mind.

Eventually hominids developed characteristics of modern humans. Scientists are not sure exactly when or where the first modern humans lived. Many think that they first appeared in Africa about 200,000 years ago. Scientists call these people *Homo sapiens*, or “wise man.” Every person alive today belongs to this group.

READING CHECK **Contrasting** How was *Homo erectus* different from *Homo habilis*?

Stone Age Tools

The first humans and their ancestors lived during a long period of time called the Stone Age. To help in their studies, archaeologists divide the Stone Age into three periods based on the kinds of tools used at the time. To archaeologists, a **tool is any handheld object that has been modified to help a person accomplish a task.**

Early Hominids

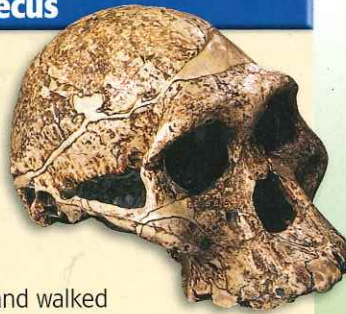
QUICK FACTS

Four major groups of hominids appeared in Africa between 5 million and about 200,000 years ago. Each group was more advanced than the one before it and could use better tools.

Which early hominid learned to control fire and use the hand ax?

Australopithecus

- Name means “southern ape”
- Appeared in Africa about 4–5 million years ago
- Stood upright and walked on two legs
- Brain was about one-third the size of modern humans



Homo habilis

- Name means “handy man”
- Appeared in Africa about 2.4 million years ago
- Used early stone tools for chopping and scraping
- Brain was about half the size of modern humans



An early Stone Age chopper

The first part of the Stone Age is called the **Paleolithic** (pay-lee-uh-LI-thik) **Era**, or **Old Stone Age**. It lasted until about 10,000 years ago. During this time people used stone tools.

The First Tools

Scientists have found the oldest tools in Tanzania, a country in East Africa. These sharpened stones, about the size of an adult's fist, are about 2.6 million years old. Each stone had been struck with another rock to create a sharp, jagged edge along one side. This process left one unsharpened side that could be used as a handle.

Scientists think that these first tools were mostly used to process food. The sharp edge could be used to cut, chop, or scrape roots, bones, or meat. Tools like these, called choppers, were used for about 2 million years.

Later Tools

Over time people learned to make better tools. For example, they developed the hand ax. They often made this tool out of a mineral called flint. Flint is easy to shape, and tools made from it can be very sharp. People used hand axes to break tree limbs, to dig, and to cut animal hides.

People also learned to attach wooden handles to tools. By attaching a wooden shaft to a stone point, for example, they invented the spear. Because a spear could be thrown, hunters no longer had to stand close to animals they were hunting. As a result, people could hunt larger animals. Among the animals hunted by Stone Age people were deer, horses, bison, and elephantlike creatures called mammoths.

READING CHECK Summarizing How did tools improve during the Old Stone Age?

Homo erectus

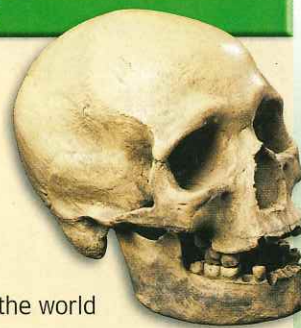
- Name means "upright man"
- Appeared in Africa about 2–1.5 million years ago
- Used early stone tools like the hand ax
- Learned to control fire
- Migrated out of Africa to Asia and Europe



A hand ax

Homo sapiens

- Name means "wise man"
- Appeared in Africa about 200,000 years ago
- Migrated around the world
- Same species as modern human beings
- Learned to create fire and use a wide variety of tools
- Developed language



A flint knife

Hunter-gatherer Societies

As early humans developed tools and new hunting techniques, they formed societies.

A **society** is a community of people who share a common culture. These societies developed cultures with languages, religions, and art.

Society

Anthropologists believe that early humans lived in small groups. In bad weather they might have taken shelter in a cave if there was one nearby. When food or water became hard to find, groups of people would have to move to new areas.

The early humans of the Stone Age were **hunter-gatherers**—people who hunt animals and gather wild plants, seeds, fruits, and nuts to survive. Anthropologists believe that most Stone Age hunters were men. They hunted in groups, sometimes chasing entire herds of animals over cliffs. This method was both more productive and safer than hunting alone.

Women in hunter-gatherer societies probably took responsibility for collecting plants to eat. They likely stayed near camps and took care of children.

Language, Art, and Religion

The most important development of early Stone Age culture was language. Scientists have many theories about why language first developed. Some think it was to make hunting in groups easier. Others think it developed as a way for people to form relationships. Still others think language made it easier for people to resolve issues like how to **distribute** food.

Language wasn't the only way early people expressed themselves. They also created art. People carved figures out of stone, ivory, and bone. They painted and carved images of people and animals on cave walls. Scientists still aren't sure why people made art. Perhaps the cave paintings were used to teach people how to hunt, or maybe they had religious meanings.

ACADEMIC VOCABULARY

distribute
to divide among a group of people

LINKING TO TODAY

Stone Tools

Did you know that Stone Age people's tools weren't as primitive as we might think? They made knife blades and arrowheads—like the one shown below—out of volcanic glass called obsidian. The obsidian blades were very sharp. In fact, they could be 100 times sharper and smoother than the steel blades used for surgery in modern hospitals.

Today some doctors are going back to using these Stone Age materials. They have found that blades made from obsidian are more precise than modern scalpels. Some doctors use obsidian blades for delicate surgery on the face because the stone tools leave “nicer-looking” scars.



ANALYSIS
SKILL

ANALYZING INFORMATION

How do you think modern obsidian blades are different from Stone Age ones?



Cave Paintings

Thousands of years ago, early people decorated cave walls with paintings like this one. No one knows for sure why people created cave paintings, but many historians think they were related to hunting.

Why do you think this cave painting may be connected to hunting?

Scholars know little about the religious beliefs of early people. Archaeologists have found graves that included food and artifacts. Many scientists think these discoveries are proof that the first human religions developed during the Stone Age.

READING CHECK **Analyzing** What was one possible reason for the development of language?

SUMMARY AND PREVIEW Scientists have discovered and studied the remains of hominids and early humans who lived in East Africa millions of years ago. These Stone Age people were hunter-gatherers who used fire, stone tools, and language. In the next section you will learn how early humans moved out of Africa and populated the world.

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Online Quiz

KEYWORD: SQ6 HP2

Section 1 Assessment

Reviewing Ideas, Terms, and People **HSS** 6.1.1

- a. Identify** Who found the bones of Lucy?

b. Explain Why do historians need archaeologists and anthropologists to study **prehistory**?
- a. Recall** What is the scientific name for modern humans?

b. Make Inferences What might have been one advantage of walking completely upright?
- a. Recall** What kind of **tools** did people use during the **Paleolithic Era**?

b. Design Design a stone and wood tool you could use to help you with your chores. Describe your tool in a sentence or two.
- a. Define** What is a **hunter-gatherer**?

b. Rank In your opinion, what was the most important change brought by the development of language?

Critical Thinking

- Evaluate** Draw a graphic organizer like the one at right. Use it to rank the three most important advancements, such as the ability to control fire, made in the Paleolithic Era. Next to your organizer, write a sentence explaining why you ranked the advancements in that order.



FOCUS ON WRITING

- Listing Stone Age Achievements** Look back through this section and make a list of important Stone Age achievements. Which of these will you include on your storyboard? How will you illustrate them?